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US PAT NO: 5,668,299 [IMAGE AVAILABLE]

L1: 1 of 1

CLAIMS:

CLMS(1)

What is claimed is:

1. A canola seed designated A 144.1 or M3094.4 and having ATCC accession number 40813 or 75023, respectively.

CLMS(2)

2. Progeny of the seed of claim 1, said progeny producing seeds having a stabilized FDA saturates content of from 4.2% to 5.0% based upon total extractable oil, said stabilized content due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023.

CLMS(3)

3. The progeny of claim 2, wherein said progeny are Brassica napus plants.

CLMS(4)

4. Progeny of the seed of claim 1, said progeny producing seeds having a stabilized palmitic acid content of from 2.7% to 3.5% based upon total extractable oil, said stabilized content due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023.

CLMS(5)

5. The progeny of claim 4, wherein said progeny are Brassica napus plants.

CLMS(6)

6. A canola seed designated A129.5, A133.1 or M3062.8 and having ATCC accession number 40811, 40812 or 75025, respectively.

CLMS(7)

7. Progeny of the seed of claim 6, said progeny producing seeds having a stabilized linoleic acid content of from 5.7% to 12.1% based upon total extractable oil, said stabilized content due to heritable genetic change present in seed deposited as ATCC accession number 40811, 40812 or 75025.

CLMS(8)

8. The progeny of claim 7, wherein said progeny are Brassica napus

plants.

CLMS(9)

9. The progeny of claim 7, said progeny seeds further having an oleic acid content between about 71% and 80% based on total extractable oil.

CLMS(10)

10. A canola seed designated M3007.4 and having ATCC accession number 75022.

CLMS(11)

11. Progeny of the seed of claim 10, said progeny producing seeds having a stabilized palmitic acid content of from 9.1% to 11.7% based upon total extractable oil, said stabilized content due to heritable genetic change present in seed deposited as ATCC accession number 75022.

CLMS(12)

12. The progeny of claim 11, wherein said progeny are Brassica napus plants.

CLMS(13)

13. A canola seed designated M3052.6 and having ATCC accession number 75024.

CLMS(14)

14. Progeny of the seed of claim 13, said progeny producing seeds having a stabilized stearic acid content of from 0.8% to 1.1% based upon total extractable oil, said stabilized content due to heritable genetic change present in seed deposited as ATCC accession number 75024.

CLMS(15)

15. The progeny of claim 14, wherein said progeny are Brassica napus plants.

CLMS(16)

16. A method of producing a Brassica plant line; said method comprising:

- (a) crossing an agronomically elite Brassica canola plant by a second brassica canola plant, said second plant producing seeds having a stabilized fatty acid composition based upon total extractable oil selected from the group consisting of:
 - (i) an FDA saturates content of from 4.2% to 5.0% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023;
 - (ii) a linoleic acid content of from 5.7% to 12.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 40811, 40812 or 75025;
 - (iii) a palmitic acid content of from 9.1% to 11.7% that is due to heritable genetic change present in seed deposited as ATCC accession number 75022;
 - (iv) a palmitic acid content of from 2.7% to 3.5% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023; and
 - (v) a stearic acid content of from 0.8% to 1.1% that is due to heritable genetic change present in seed deposited as ATCC accession

number 75024; and

- (b) producing said plant line from said at least one plant by self- or cross pollination and selecting for said fatty acid content in at least one generation, said line being stabilized for said acid content due to said heritable genetic change.

CLMS(17)

17. The method of claim 16, wherein said plant line produces seeds having:

- (i) an FDA saturates content of from 4.2% to 5.0% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023; and
(ii) a linoleic acid content of from 5.7% to 12.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 40811, 40812 or 75025.

CLMS(18)

18. The method of claim 17, wherein said plant line produces seeds further having a palmitic acid content of from 2.7% to 3.5% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023.

CLMS(19)

19. The method of claim 18, wherein said plant line produces seeds further having a stearic acid content of from 0.8% to 1.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 75024.

CLMS(20)

20. A method of producing a Brassica plant line; said method comprising:

- (a) inducing heritable genetic change by chemical or physical mutagenesis in seeds of a starting Brassica canola variety;
(b) germinating said seeds to form plants which are then self-pollinated to yield a second generation of seeds;
(c) selecting, by bulk seed analysis of a portion of said second generation seeds, at least one of said plants that yields a seed oil having a stabilized fatty acid composition based upon total extractable oil selected from the group consisting of:
 (i) an FDA saturates content of from 4.2% to 5.0% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023;
 (ii) a linoleic acid content of from 5.7% to 12.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 40811, 40812 or 75025;
 (iii) a palmitic acid content of from 2.7% to 3.5% that is due to heritable genetic change present in seed deposited as ATCC accession number 75022;
 (iv) a palmitic acid content of from 2.7% to 3.5% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023; and
 (v) a stearic acid content of from 0.8% to 1.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 75024; and
(d) producing said plant line from said at least one plant by self-pollination and selecting for said fatty acid content in at least one generation, said line being stabilized for said acid content due to said heritable genetic change.

CLMS (21)

21. The method of claim 20, wherein said plant line produces seeds having:

- (i) an FDA saturates content of from 4.2% to 5.0% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023; and
- (ii) a linoleic acid content of from 5.7% to 12.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 40811, 40812 or 75025.

CLMS (22)


22. The method of claim 21, wherein said plant line produces seeds further having a palmitic acid content of from 2.7% to 3.5% that is due to heritable genetic change present in seed deposited as ATCC accession number 40813 or 75023.

CLMS (23)

23. The method of claim 22, wherein said plant line produces seeds further having a stearic acid content of from 0.8 to 1.1% that is due to heritable genetic change present in seed deposited as ATCC accession number 75024.

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